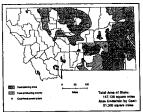
## **General Facts About Coal**

Coal is widely distributed throughout the United States, with 46% occurring in states cast of the Mississippi River and 54% in western waters and Alaska. Goal underfices 13% of lord IU. Stand area, encompassing some 458,000 square miles. Measurable quantities are found in 38 states; in 31 of them the coal is considered memaleh, and mining operations currently take place in 25 states.

Reserve Base (Billions of Tons)	Reserve	2004 Production (Millions of Tons)	Ranked b
119.3	i	40.0	6
104.5	2	31.9	9
. 64.3	. 3	396.5	ı
33.2	4	148.0	2
30.2	5	114.2	3
27.6	6	66.0	4
23.3	7	23.2	12
16.3	8	39.9	7
12.4	9	45.9	.5
12.2	10	27.3	F1
9.5	n	35.1	8
9.1	12	29.9	10
6.1	13	1.5	14
6.0	14	.6	15
5.4	1.5	21.7	13
	(Billions of Tons) 119.3 104.5 64.3 33.2 27.6 23.3 16.3 12.4 12.2 9.5 9.1 6.0	Reserve Base   Reserve (Billions of Irons)   Base   Reserve (Billions of Irons)   Rase   Reserve (Billions of Irons)   Reserve (Billions)   Reserve (Billions)   Reserve (Billions)   Re	(Billione of Tons) Base (Millions of Tons) 193. 1 40.0 193. 1 31.0 193. 1 40.0 193. 193. 193. 193. 193. 193. 193. 193.

Source: O. d. Energy information commentation.

Of the 15 major coul-producing states, Mortanz ranks first in coal resources and reservers with searly 120 billion town. The Energy Information Administration custimates had 12 billion of those town are presently recorrelable reservers. This includes on manufacturing coal manes. At the present rate of minning, approximation of the manufacty 40 million tamps per servi, Montanza could nastion near 19 pass of minting from presently immends coal. In terms of the coal reserve hear, if it all became rates and were instand at the Current rate; it would sustain mining for each 35 offs open and were instand at the Current rate; it would sustain mining for each 35 offs open.



## **Surface Mining and Reclamation**

Surface coal mining companies are required to reclaim and return mined land to a productive capacity that is equal to or better than before mining occurred. The reclaimston operation takes place concurrently with the mining operation. The first step taken is to tremove the top toll from an area to be muted, setchpic in and abelieve it with tremopromy vegetation to powerful reads.

tom. The lists step taken is to tembore use up soil from an area to the minder, steckpic it and stabilize it with temporary vegetation to prevent crossion. The initial removal of overburden (the remaining material covering the cost) is called a box or and the cavity that is left when the coal is removed will receive the overburden from the second cut. It most cases, a dragine is used in overburden from the second cut. It most cases, a dragine is used in overburden from the second cut. It most cases, a dragine is used in the overburden from the second cut. It most cases, a dragine is used in the overburden from the second and beginning in its is obtated. The coal is fractured in the same way and then removed by large loaders, deposited in coal haulers and transported to the most coarge and loading facility.

Once the dragine has deposited overburden over the minnef-out cavity, build-oxers smooth it out and contour it to blend with the surrounding landscape. This process is much like that employed in construction projects. After that, exclamation becomes very similar to any farming operation. The soil is scaffed to guard against crossion, top soil is replaced and the area is planted with most of many properties of the supervised reclamation picture. It is the committee of the supervised reclamation picture and the properties of the capitatory against crossion and while fertilizer may be used during the early growing exactor, irrigation has not been message.

fertilizer may be used during two cars governed.

Before any company is permitted to mine, it is required to post a bond sufficient to cover the cost of reclamation if an operator fails with his reclamation efforts. That bond is not released until successful reclamation is verified. Based on procepitation rates in the West, the law distates that, in no case, can the bond be released sooner than ton years from the date of seeding.

Parablica

## Royalties

Honke a tax paid to government on the production of coal or its realized profits, royalities are a monetary payment to the owner of the coal as agreed upon in the terms of per-mining leases. State and lederal government still are major beneficiaries of these payments, however, because a large pertentiage of the mineral right ownership of coal in Mousana has been returned by the federal government, with payments from the coal producing school sections going to the state. In addition, the 1976 federal leasing law numbers that 50 percent of the royaltes collected from development of federal leasts be returned to the same. Other coal leasons included indian rithes and private for feel owners.

# Best Available Figures Cumulative Royalty Payments from

Company	Federal	State	Indian	Private	Total
Big Sky Coal	\$ 21,835,151			\$ 32,293,872	
Decker Coal	336,452,575	\$63,365,131		101.225,598	501,043,304
Spring Creek	149,447,913	9.283,831		9,749,587	168,481,331
Western Energy	175,942,933	4,408,942		111,292,604	291,644,479
Westmoreland					
Resources		4,617,797	\$63,584,496	323,152	68,525,445
Westmoreland					
Savage	4,080,733			674.552	4,755.285
-	\$687,759,305	\$81,675,701	\$63,584,496	\$255,559,3655	1,088,578,867

\*Big Sky Coal is now closed Source: Individual Companies

Employment and Payroll ag industry furnishes some of the highest-paying and m

sought-after jobs in the state.	Number of Employees	Estimated Payroil
Bull Mountain	60	3,600,000
Decker Coai Co.	130	7,000,000
Spring Creek Coal Co.	. 152	12,779,000
Western Energy Co.	386	23,692,000
Westmoreland Resources	112	8,996,000
Westmoreland Savage	_12	550,000
Treatment of the	852	\$56,617,000
Source: Individual Companies		

## **Production and Value**

The following chart shows production for 1996 through 2005. The price per ton at the various sites depends on the quality of coal (thesting value, moisture content), sulfur and ash content, etc.) but an average for Calerdar Year 2005 was \$6,99 per ton making the value of that coal over \$283 million. The price is established by the Department of Revenue after three state and two federal taxes

Cont	Production
Year	Million Tons
1996	37.8
1997	40.8
1998	42.6
1999	41.1
2000	38.3
2001	39.2
2002	37.3
2003	37.0
2004	40.1
2005	40.6

Source: Department of Lahor & Industry, Safety Bureau

## Coal Mine Safety

Incidence Rates by Industry, Mon	tana,
1996 Nonfatal Occupational Injuries &	Ullnesses
(Incidence Rate Per 100 Full-Time V	Vorkers)
Agriculture, Forestry, Fishing	17.2
Construction	13.4
Manufacturing	. 12.9
Wholesale Trade	10.3
Retail Trade	8.3
Metal Mining	8.2
Services (i.e., restaurant workers)	8.1
Coal Mining	4.1
Finance, Insurance, Real Estate	3.5

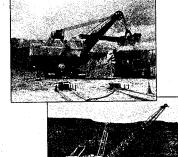
Source: Department of Labor & Industry, Safety Bureau

This brochure was prepared by the staff of the Montana Coal Council with the assistance of in-termational sources quoted. The Montana Coal Council is a trade association whose members Council is a trade association whose members are involved in the production of coal in Montana. We support realistic state and national environmental partial and social standards. The council absorberognizes the need for a federal energy policy that will lead to the development of domestic energy sources and reducing this nation's dependence on foreign oil.

Montana Coal Council 2301 Colonial Drive Helena, MT 59601 (406) 442-6223 Fax: (406) 449-6628 E-mail: mtcoal@aol.com www.montanacoalcouncil.com Executive Director: Bud Clinch Office Manager: Danette M. Warren

SENATE TAXATION Eclibit NO: 12 DATE: 3-30-07 BILL NO: 58-56?

# **Montana** Coal 2006



Every ton of Montana coal replaces 3 1/2 barrels of foreign oil.

The Severance Tax. - Prior to 1975. Monttons's coal severance tax was assessed on a cettle-poet-on basis. In 1975 the Legislature casted the highest severance tax in the nation, based on percentage of the min-month purce of the coal. The percentage was field to the heating quality of the coal - 30 percent for substitutions and 20 percent for liquits. However, the 1974 Legislature reacted a law to gradually reduce the taxes on coal in 5 percent interments over the next few years if a urget tomage of 222 cmillion was produced in Third New 1978. The larget was next and the the dopped to 25 percent on July 1, 1988, to 20 percent on July 1, 1990, and to 15 percent on July 1, 1991.

Severance	Tax	Collections*
:v		

FY		
1975/76	\$ 23,965,000	a
1976/77	35,906,000	
1977/78	34,372,000	Ġ
1978/79	42,689,00	Ö
1979/80	75.125.00	Ö
1980/81	70,415,00	Ġ
1981/82	86,187,00	û
1982/83	80,045,00	Û
1983/84	82,823,00	
1984/85	91,749,00	
1985/86	84,217,00	
1986/87	76,547,00	
1987/88	84,638,00	
1988/89	58,566,00	ĺ
1989/90	67,871,00	
1990/91	50,458,00	
1991/92	43,434,00	C
1992/93	38,181,00	(
1993/94	41,200,00	
1994/95	40,416,00	Į
1995/96	36,261,00	Į
1996/97	37,740,00	
1997/98	35,045,00	
1998/99	36,768,00	į
1999/00	35,470,00	
2000/01	32,337,00	
2001/02	31,614,00	
2002/03	29,424,00	
2003/04	31,545,00	٩
2004/05	37,635,00	

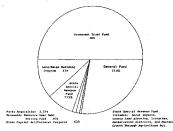
Permanent Coal Trust Fund	\$708,900,735	
General Fund	350,449,836	
State Special Revenue Fund**	27,631,381	
Long Range Building Program	40,672,046	
Local Impact	90,616,117	
County Land Planning	6,119,376	
Parks Acquisition Trust	22,957,718	
Arts Council Trust/Cultural &		
Aesthetic Projects	3,356,671	
State Library Commission	4,801,351	
Conservation Districts	1,916,714	
Water Development	4,275,441	
MT Growth Through Agriculture	3,207,594	
Renew, Res.Loan Debt Service	3,119,601	
Long Range Building Program Debt Service	933,565	(ended in FY 99/00)
Renewable Res. Develop.	. 11,169,855	(ended in FY 98/99)
Highway Reconstruction Trust	52,731,221	
Fish, Wildlife & Parks	1,482,985	(ended in FY 94/95)
State Equalization Aid to Schools	102,574,928	(ended in FY 94/95)
State Parks/Historic Sites	550,165	(ended in FY 91/92)
Education Trust Fund	75.318,623	(ended in FY 89/90)
Alternate Energy Research	18,354,255	(ended in FY 88/89)
Coal Area Highway Improvement	15,117,192	
Coal Counties	4,737,441	(ended in FY 79/80)
Acquisition of Sites & Areas	1,647,532	(caded in FY 79/80)
	\$1,552,642,343	-

Souther, winitiatal Experiment on Revenue

The above figures do not include coal severance taxes paid since 1988 by Westmorehand
Resources line, on coal owned by the Crow Thee. WRI pays coal severance taxes and gross
proceeds taxes attently to the Crow Thee and not not the state of Montana or the county.

"State Special Revenue Found violables Local Impacts, County Land Planning, Libraries,
Conservation Districts and MT Growell Through Agriculture Act. Unspern menuity goes to

## MONTANA COAL TAX DISTRIBUTION Source: 15-35-108, MCA Effective 7-1-03



Net (prior to 1975) and Gross Proceeds Taxes - These are additional taxes paid on the value of the coal to support county government in the counties where the mines are located. \$337,083.460 as been collected by Big. Horn, Richland, Musschlell and Rocebud Counties through FY 2004. The figure for FY 2005 is \$12,220.400 bringing the total to date to \$399,238.865.
 Source: Montana Department of Revenue

Resource Indennity Trust Tax - As of 1973, all nonrenewable resource produces have been required to pay this tax which is now 0.4 process of contract sites prices. The total collections from PY 1973-74 foreigh PY 2003/04 were \$11,38.00x. The PY 2004/05 figure was \$1,107,099 making the total taxes paid \$2,243.00x.

4. Personal Piccome Tax. While its difficult to determine the amount of personal income tax paid to the state by surface mine employees, we have made a general extranse based on an average gross income of 564/32 per year with two exemptions. Under that formois, the state of Montana would receive approximately \$2.9 million annually and the actual annual is probably highed: I may be of interest to not that perhaps are many as 50 percent of mute employees who work in Montana and pay its state incume tax live in Shrondan Contray, Vayring, Secance in the observation and the perhaps are made to the perhaps are made to the contract of the perhaps are made to the perhaps are made as the perhaps are made as a paying the state incume tax live in Shrondan Contray, Vayring, Secance in the observation can be the observation and the perhaps are made as a paying the perhaps are perhaps and the perhaps are perhaps are perhaps and the perhaps are perhaps are perhaps and the perhaps are perhaps and the perhaps are perhaps are perhaps and the perhaps are perhaps are perhaps and the perhaps are perhaps are perhaps are perhaps are perhaps are perhaps

5. Federal Taxes - In addition to state taxes, Montana surface mining operations pay a tax for abandoned minin reclamation, mostly abandoned hardreck mines, consisting of 10 percent of the FDB mine price up for an assimum of 10 cens per ten for liquitie or 35 cens per tun for all other types of cena.
Alan, 4.4 percent of the FDB mine spice (less the lakely limp (ax) or 55 cents per on, winches er in less, is paid to a fluid to the long disease, vectime, even though this disease is positively suffered by a fluid to the long disease. Vectime, even though this disease is positively suffered by a fluid to the long disease.

PM<sup>10</sup> Emissions (Respirable-Size Particulates) Comparison Between Comparison Between Colstrip Units 1-4 and Montana Wildfire

Wildfire puts out over 1,000 pounds of PM.<sup>40</sup> per acre. In the year 2000, 965,000 acres burned in Montans resulting in 482,000 ones of PM.<sup>40</sup> in the ir. Colstrip Units 1-4 emit 255 tons/year of PM.<sup>40</sup>. PM.<sup>40</sup> emitted by wildfires in Montana in the year 2000 is equal to 1,892 years of Colstrip

Holder (	Estimated Reserves
1. U.S. Government	90.0
2. Great Northern Properties Limited Partners!	nip 20.0
3. Pcabody Energy Corp.	9.3
4. CONSOL Energy Inc.	4.5
5. Arch Coal, Inc.	3.7
6. The North American Coal Corp.	2.4
7. Massey Energy Co.	2.2
8. Pocahontas Land Corp. (Norfolk Southern)	1.8
9. Natural Resource Partners LP	1.8
10. Foundation Coal Corp.	1.8
11. Kennecutt Energy Co.	1.5
12. Murray Energy Corp.	· i.2
13. BHP Billiton	3.1
14. International Coal Group (ICG)	.7
15. TXU Mining Co. (Texas Utilities)	6
Source: National Mining Association	

# est U.S. Surface Coal Mines, 2004

(million short tons)				
Mine Name	State Located	2004 Tonnage	Operating Company	
Black Thunder	WY	93.0	Arch Coal, Inc.	
2. North Asselope/Rochelle	WY	82.5	Peabody Energy Subsidiary	
3. Cordero-Rojo	WY	38.8	Kennecott Energy Co.	
4. Jacobs Runch	WY	38.6	Kennecott Energy Co.	
5. Antelope	WY :	29.7	Kennecott Energy Co.	
6. Caballo	WY	26.5	Peabndy Energy Subsidiary	
7. Eagle Butte	WY	23.0	Foundation Coal West, Inc.	
8. Buckskin	WY	20.3	Kiewit Mining Group	
9. Belie Avr	WY	18.7	Foundation Coal West, Inc.	
10. Freedom	ND	15.2	The Coteau Properties Co.	
11. Martin Lake	TX	13.0	Texas Utilities Mining Co.	
12. Rosebud	MT	12.7	Western Energy Co.	
13. Spring Creek	MΓ	12.0	Kennecott Energy Co.	
14 Decker	MT	8.5	Kicwit Mining/Kennecott	
15. Kaventa	AZ	8.4	Peabody Energy Subsidiary	

## Did You Know?

Coal provides about 55% of the total amount of electricity used in the United States each day.

Coal mining is one of America's great basic industries, providing \$15.5 billion annually in direct economic impact in 1995.

Since 1970, the electric utility industry has increased its use of coal by nearly 154%, yet since the 1970's total U.S. emissions of suffar dioxide have declined more than 20%.

The coal industry notinely reclaims thousands of seres of mined lands each year, returning them to productive use in the ecosystem.

Coal is actually "baried sunshine," because it originated from prehistoric plants that lived some 300 million years ago.

Coal accounts for about 95% of America's Jossil energy reserves and is larger than either world petroleum or natural gas reserves, when measured in terms of oil equivalency.

The largest coal producing state is Wyoming employing roughly 4,500 workers to produce over 400 million tons of coal in 2005.

Coal provides employment for over 90,000 miners directly, with an additional seven jobs created throughout the economy for each miner's job (electric utilities, transportation, manufacturing, etc.)

## Glossary of Coal Terms

Anthracite - Called hard cool, highest rank of economically usable coal. Has a large heating value of 15,000 Biu; carbon content of 86-97%, and moisture cou-ter of less than 15%. Used primarily for space heating and generating electricity. Animatoic coal deposits total some 7 billion tons and are located primarily in Pennsylvania.

Btu - British thermal unit. A measure of the energy required to raise the tempera-ture of one pound of water one degree Fahrenheit.

ture of one pound of water one orgive rantennets.

Bituminous - Called soft coal, most common type. Has a heating value of 10,500-15,500 Bu; carboe content of 45-86% and moisture content usually less than 20%. Mined chiefly in Appaiachia and Midwest. Reserves are widely scattered across the country and total some 238 billion tons.

Fossil Fuel - Any naturally occurring fuel of an organic nature, such as coal, crude oil and natural gas.

Gasification - Any of various processes by which coal is turned into low, inc-dium, or high Bu gases.

own, or night But gases. (Eighte E- provide b-back coal with generally high moisture content and lower beating value (4,005-8,300 Bio). Curbon content of 25-35%; moisture sometimes as high as 45%. Demonstared tessers of 45 billion to sar or mixed primarily in Louisiana, Montana, North Dakota and Texas. Moutly used to make electricity at power plants Dearder claritively close to the coal prime.

Elquefaction - Converting coal into synthetic liquid fuel, similar in nature to crude oil and/or refined products such as gasoline.

Reguested products some as gustome.

Magnetohydrophramics - Also known as MHD. Coal and preheated air are fired in a low-resistance time burner at very high temperatures. Potassium salts are added, producing a gas of high conductivity. The gas is then passed through a magnetic field, producing electricity. This process is still in the research stage.

magnetic near, producing electricity. This process is still in the research stage, Milme-Mouth Plant: Countenily a seam-electric plan basis close to a cold mine which delivers its electricity output to a distant point by transmission lines. Recoverable Reserves — has most of cold that can be recovered form the demonstrated reserve base. The recovery factor for surface mines is about 80-9% and for underground mines about 60%. Using these percentages, there are about 296.5 billion toos of recoverable reserves in the U.S., enough to last more than 250 years of current production bevels.

Scrubber - Any fewer af froms of chemical-physical devices which operate to remove sulfur compounds formed during coal combustion. These devices com-bine the sulfur in gascous emissions with another chemical medium to form inert "sludge," which must then be removed for disposal.

"sledge," which must then be removed for disposal.

Slurry Pipeline Propeline for taxoportine yiscous mixture of coal and liquid necluum. Only one such line, a 273-mile system from Arzona to Nevada, is emedium now as use, but experiments with oil, liquid methane or carbon dissiste show promise of increased efficiency and tendened environmental concerns in sease where water supplies are searce. These pipelines might also be used for short-had transport, such as form a part feality in a nearby power plant, reducing or eliminating.

Subblumairous. Dail basic coal with beating value ranging between 8,300-115/10 Bigs, ender contents. 35-45; was dissolved content. 35-45;

Tons - A short on the ton is equal to 2,000 pounds; a long ton or British ton is 2,240 pounds; a metric ton is approximately 2,205 pounds.

2,240 pounds, a metric ton is approximately 2,205 pounds.

Unit Train - Long train of 601-50 kopper cars currying only coal between a mice and a customer. A typical unit train can carry at least 10,000 tons of cool in a single shipment.